

RECEIVED  
MAR 15 2005

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STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

DIV. OF OIL, GAS & MINING

FORM 3

AMENDED REPORT ☐  
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>		5. MINERAL LEASE NO: ML-22446	6. SURFACE: State
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>		7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY, L.P.		8. UNIT or CA AGREEMENT NAME: 891008900A <i>Natural Buttes</i>	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078		9. WELL NAME and NUMBER: NBU 921-331	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2240' FSL 878' FEL AT PROPOSED PRODUCING ZONE: <i>623824X 39.990866</i> <i>4427541Y -109.549643</i>		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 13.7 MILES SOUTHEAST OF OURAY, UTAH		11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 33 9S 21E	12. COUNTY: UINTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 878'	16. NUMBER OF ACRES IN LEASE: 368.96	17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C	19. PROPOSED DEPTH: 9,694	20. BOND DESCRIPTION: STATE SURETY RLB0005236	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5014.6' UNGRADED GL	22. APPROXIMATE DATE WORK WILL START:	23. ESTIMATED DURATION: TO BE DETERMINED	

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
12 1/4"	9 5/8" 32.3# H-40, STC	2,500	PREM CMT 265 SX 1.18 15.6
7 7/8"	4 1/2" 11.6# I-80, LTC	9,694	PREM LITE II 510 SX 3.38 11.0
			50/50 POZ G 1390 SX 1.31 14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER | <input checked="" type="checkbox"/> COMPLETE DRILLING PLAN                                   |
| <input type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER        | <input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER |

NAME (PLEASE PRINT) DEBRA DOMENICI

TITLE ENVIRONMENTAL ASSISTANT

SIGNATURE

*Debra Domenici*

DATE 3/11/2005

(This space for State use only)

API NUMBER ASSIGNED:

*43-047-36393*

APPROVAL:

Approved by the  
Utah Division of  
Oil, Gas and Mining

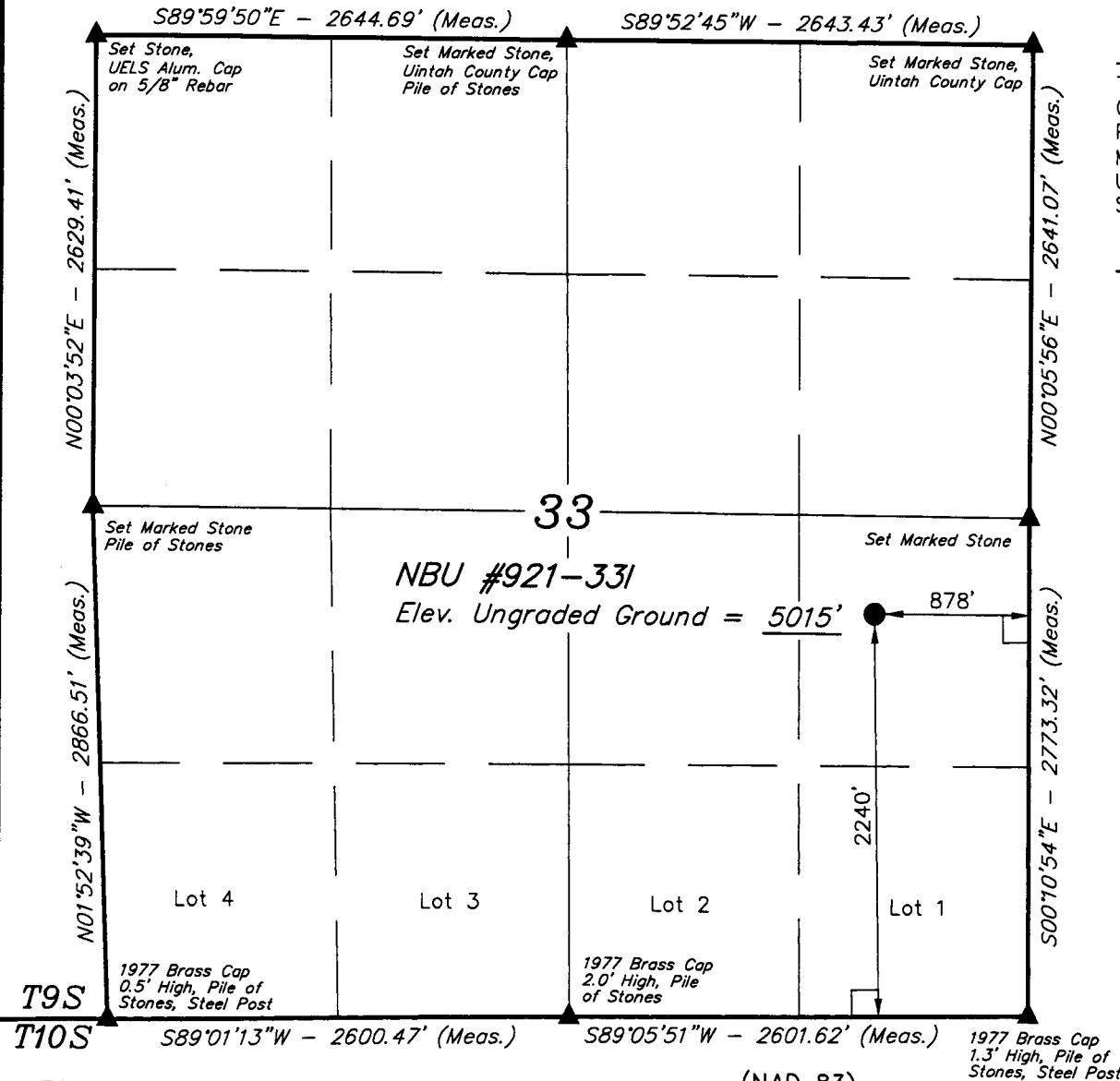
Date:

*05-10-05*

By:

*[Signature]*

**T9S, R21E, S.L.B.&M.**



- LEGEND:**
- └─┘ = 90° SYMBOL
  - = PROPOSED WELL HEAD.
  - ▲ = SECTION CORNERS LOCATED.

(NAD 83)  
 LATITUDE = 39°59'27.67" (39.991019)  
 LONGITUDE = 109°33'01.34" (109.550372)  
 (NAD 27)  
 LATITUDE = 39°59'27.80" (39.991056)  
 LONGITUDE = 109°32'58.86" (109.549683)

**WESTPORT OIL AND GAS COMPANY, L.P.**

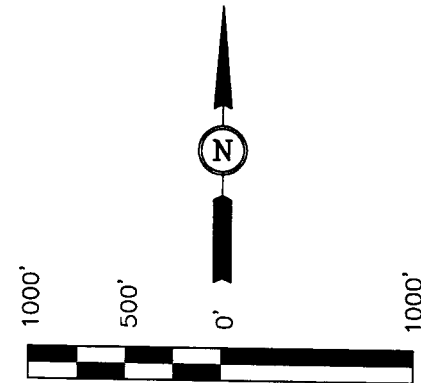
Well location, NBU #921-331, located as shown in the NE 1/4 SE 1/4 of Section 33, T9S, R21E, S.L.B.&M. Uintah County, Utah.

**BASIS OF ELEVATION**

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.



SCALE  
 CERTIFICATE

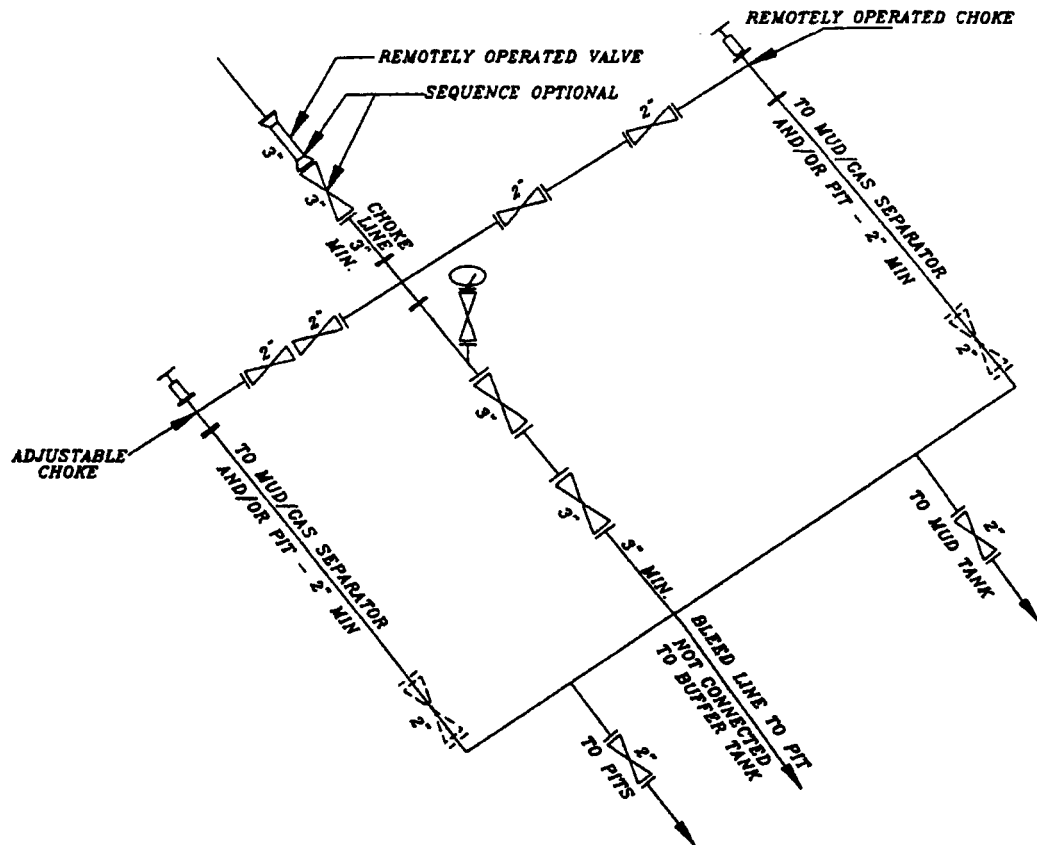
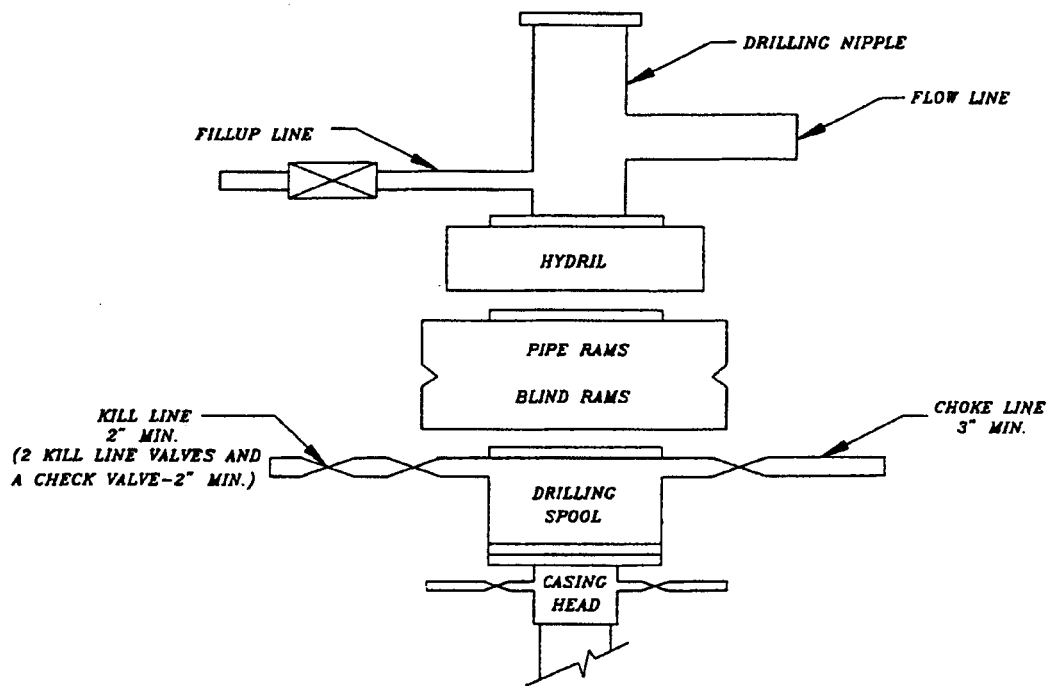
THIS IS TO CERTIFY THAT THE ABOVE MAP WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

**ROBERT L. [Signature]**  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 151312  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 1-5-05	DATE DRAWN: 1-18-05
PARTY J.F. E.C.O.	REFERENCES G.L.O. PLAT	
WEATHER COLD	FILE WESTPORT OIL AND GAS COMPANY, L.P.	

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM





Westport Oil and Gas Company, L.P.  
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL		WT.	GR.	CPLG.	DESIGN FACTORS		
							BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'					2270	1370	254000
SURFACE	9-5/8"	0	to 2100	32.30	H-40	STC	3520	1.39	3.59
	9-5/8"	2100	to 2500	36.00	J-55	STC	7780	1.73	7.98
PRODUCTION	4-1/2"	0	to 9694	11.60	I-80	LTC	2.12	1.10	2.05

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

MASP 3664 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	100		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	230	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,714'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	510	60%	11.00	3.38
	TAIL	4,980'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1390	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

DRILLING ENGINEER: Brad Laney

DRILLING SUPERINTENDENT: Randy Bayne

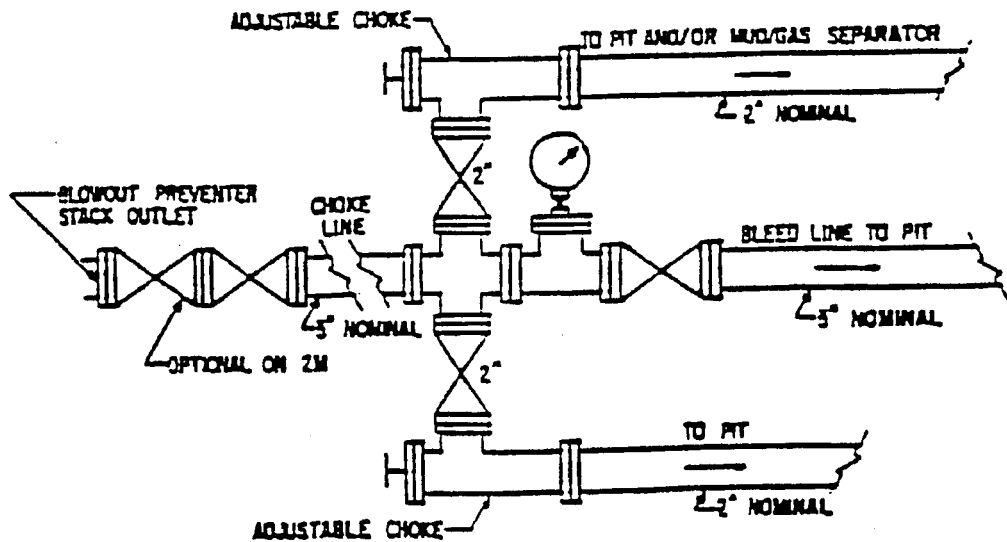
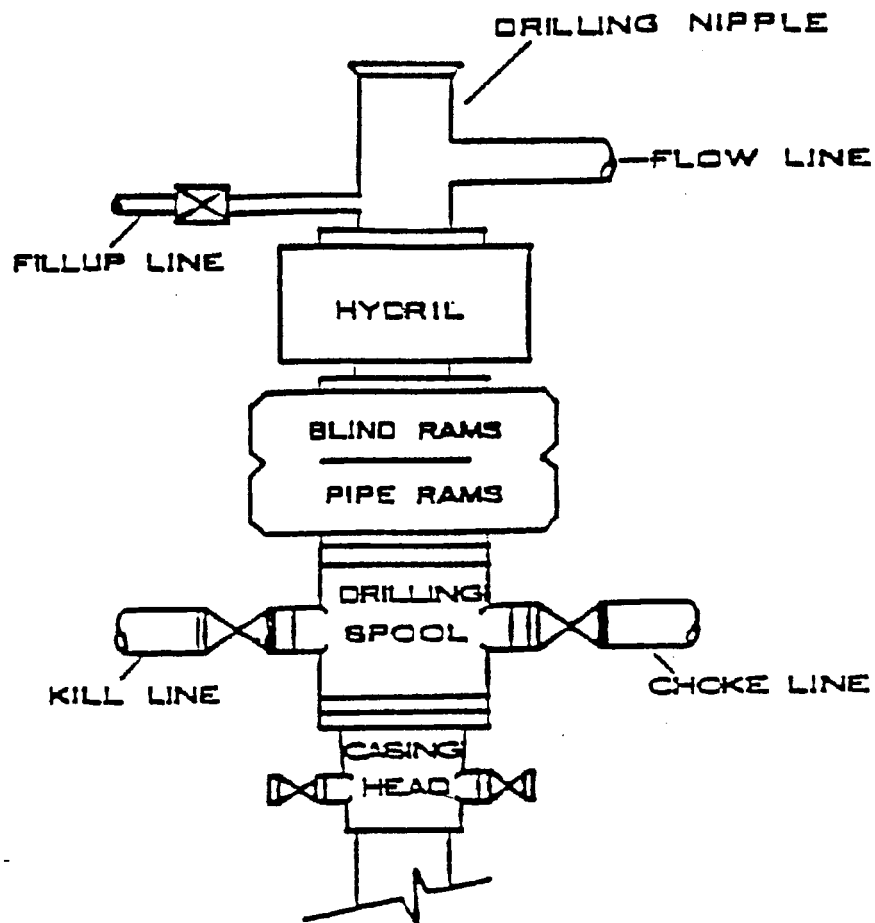
DATE:

DATE:

NBU921-33I\_APD(pipeline).xls

3,000 PSI

## BOP STACK



NBU #921-33I  
NESE Sec. 33, T9S-R21E  
Uintah County, UT  
ML-22446

ONSHORE ORDER NO. 1

***MULTI-POINT SURFACE USE & OPERATIONS PLAN***

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Approximately 0.1 miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

***Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities will be determined at the on-site.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities & Pipelines**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes

will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 1520' of up to 8" pipeline is proposed. The pipeline will be butt-welded together. Refer to Topo D for the proposed pipeline.

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.



A plastic reinforced liner and felt will be used, it will be a minimum of 16 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

**8. Ancillary Facilities**

None are anticipated.

**9. Well Site Layout: (See Location Layout Diagram)**

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. **Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. **Surface Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

12. **Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey will be submitted when it is received by our office.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

13. **Lessee's or Operators's Representative & Certification:**

Debra Domenici  
Environmental Assistant  
Westport O&G Co.  
1368 South 1200 East  
Vernal, UT 84078  
(435) 781-7060

Randy Bayne  
Drilling Operations Manager  
Westport O&G Co.  
1368 South 1200 East  
Vernal, UT 84078  
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Westport O&G Co. is considered to be the operator of the subject well. Westport O&G Co. agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005236.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
Debra Domenici

3/11/05  
Date

NBU #921-33I  
NESE SECTION 33-T9S-R21E  
UINTAH COUNTY, UTAH  
LEASE NUMBER: ML-22446

ONSHORE ORDER NO. 1  
WESTPORT OIL & GAS COMPANY

***DRILLING PROGRAM***

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	Surface
Green River	1554'
Wasatch	5214'
Mesa Verde	7594'
Total Depth	9694'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Gas	Green River	1554'
	Wasatch	5214'
	Mesa Verde	7594'
Water	N/A	
Other Minerals	N/A	

3. **Pressure Control Equipment:**

*Please refer to the attached Drilling Program.*

4. **Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

5. **Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

6. **Evaluation Program:**

*Please refer to the attached Drilling Program.*

**7. Abnormal Conditions:**

Maximum anticipated bottomhole pressure at 9694' TD approximately equals 3877.6 psi (calculated at 0.4 psi/foot).

Maximum anticipated surface pressure equals approximately 1744.92 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

**8. Anticipated Starting Dates & Notification of Operations:**

*Please refer to the attached Drilling Program.*

**9. Variances:**

*Please refer to the attached Drilling Program.*

**10. Other Information:**

*Please refer to the attached Drilling Program.*



COMPANY NAME	Westport Oil and Gas Co., L.P.		DATE	March 1, 2005	
WELL NAME	NBU 921-33I		TD	9,694'	MD/TVD
FIELD	LOVE	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NESE SECTION 33-T9S-21E 2240'FSL & 878'FEL				BHL Straight Hole
	Latitude:	39.991056	Longitude:	109.549683	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UTDGDM, (SURF & MINERALS), Tri-County Health Dept.				

NBU921-33I\_APD.xls

# Westport Oil and Gas Company, L.P.

## DRILLING PROGRAM

### CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 2500	32.30	H-40	STC	0.78*****	1.17	3.59
PRODUCTION	4-1/2"	0 to 9694	11.60	I-80	LTC	7780	6350	201000
						2.68	1.26	2.05

- 1) Max Anticipated Surf. Press. (MASP) (Surface Casing) = (Pore Pressure at next csg point - (0.22 psi/ft - partial evac gradient x TVD of next csg point))
- 2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft - partial evac gradient x TD)
- (Burst Assumptions: TD = 10.0 ppg) .22 psi/ft = gradient for partially evac wellbore
- (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing \* Buoy. Fact. of water)
- MASP 2908 psi

\*\*\*\*\* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

### CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2			<b>NOTE: If well will circulate water to surface, option 2 will be utilized</b>				
	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite + .25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,714'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	510	60%	11.00	3.38
	TAIL	4,980'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1390	60%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

\*Substitute caliper hole volume plus 15% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 3M with one annular and 2 rams. Test to 3,000 psi (annular to 1,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

DRILLING ENGINEER:

Brad Laney

DATE: \_\_\_\_\_

DRILLING SUPERINTENDENT:

Randy Bayne

DATE: \_\_\_\_\_



# WESTPORT OIL AND GAS COMPANY, L.P.

NBU #921-33I

SECTION 33, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 6.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 5.0 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN RIGHT AND PROCEED IN A NORTHEASTERLY, THEN EASTERLY, THEN SOUTHERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 44.9 MILES.

# WESTPORT OIL AND GAS COMPANY, L.P.

NBU #921-33I

LOCATED IN UINTAH COUNTY, UTAH  
SECTION 33, T9S, R21E, S.L.B.&M.

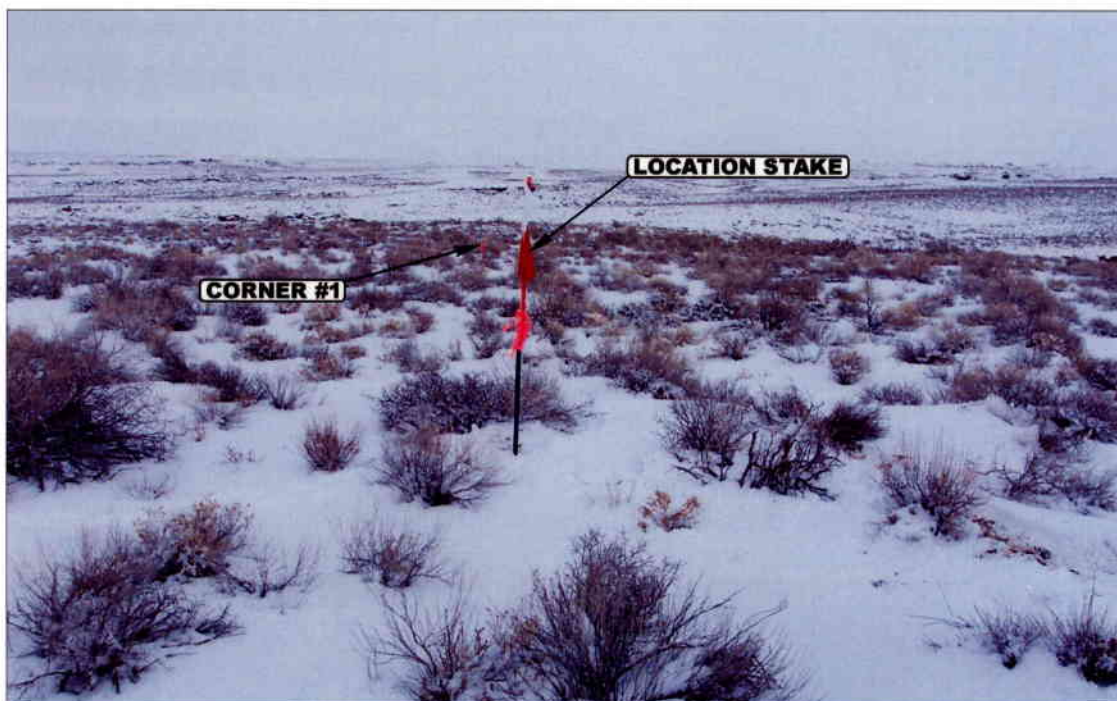


PHOTO: VIEW FROM LOCATION STAKE TO CORNER #1

CAMERA ANGLE: NORTHEASTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

**UELS** Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
435-789-1017 uels@uelsinc.com

**LOCATION PHOTOS**

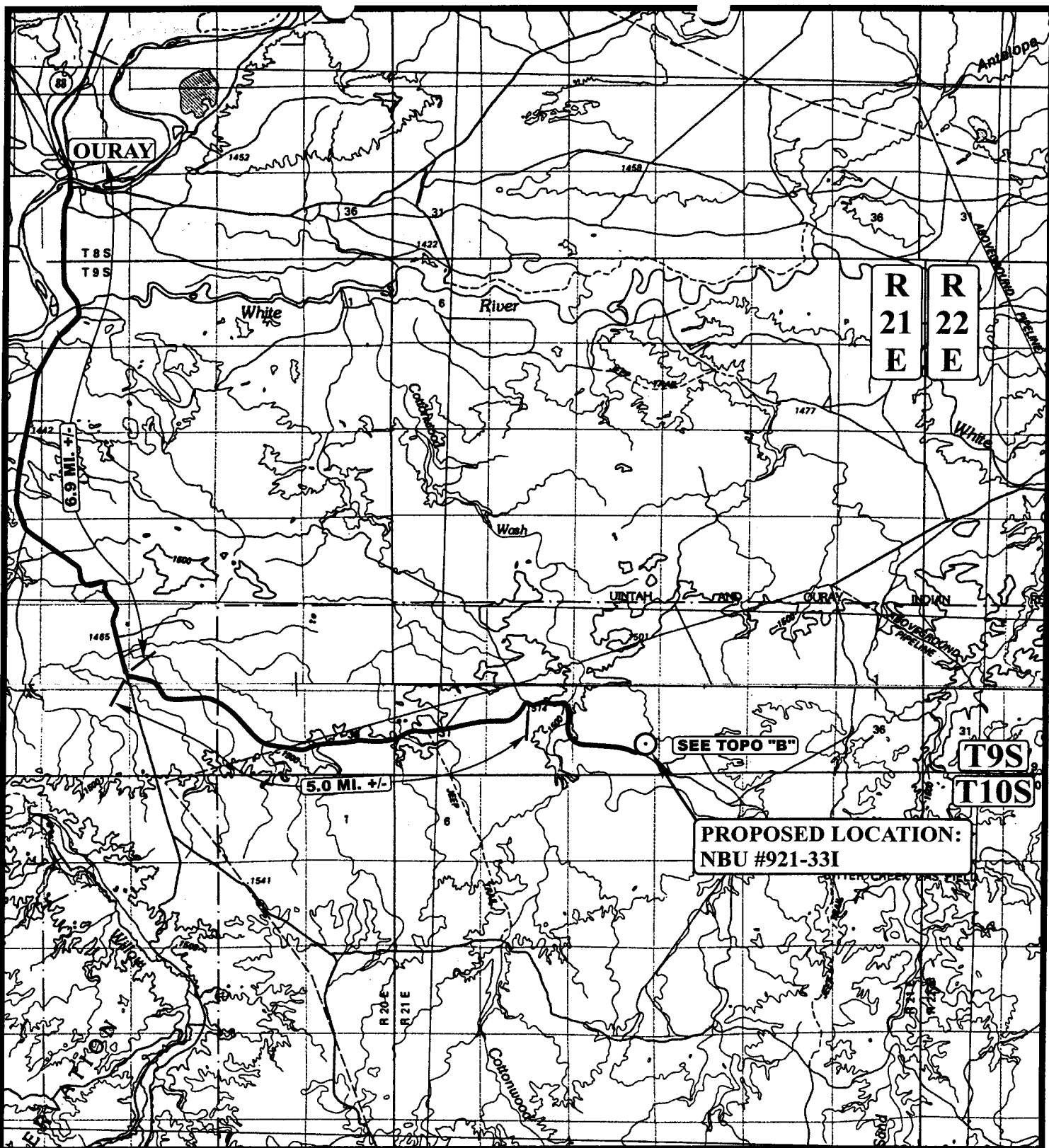
**01** **07** **05**  
MONTH DAY YEAR

**PHOTO**

TAKEN BY: J.F.

DRAWN BY: C.P.

REVISED: 00-00-00



# **LEGEND:**

○ PROPOSED LOCATION



## **WESTPORT OIL AND GAS COMPANY, L.P.**

NBU #921-33I  
SECTION 33, T9S, R21E, S.L.B.&M.  
2240' FSL 878' FEL



Uintah Engineering & Land Surveying  
85 South 200 East Vernal, Utah 84078  
(435) 789-1017 \* FAX (435) 789-1813

TOPOGRAPHIC  
MAP

01 07 05  
MONTH DAY YEAR

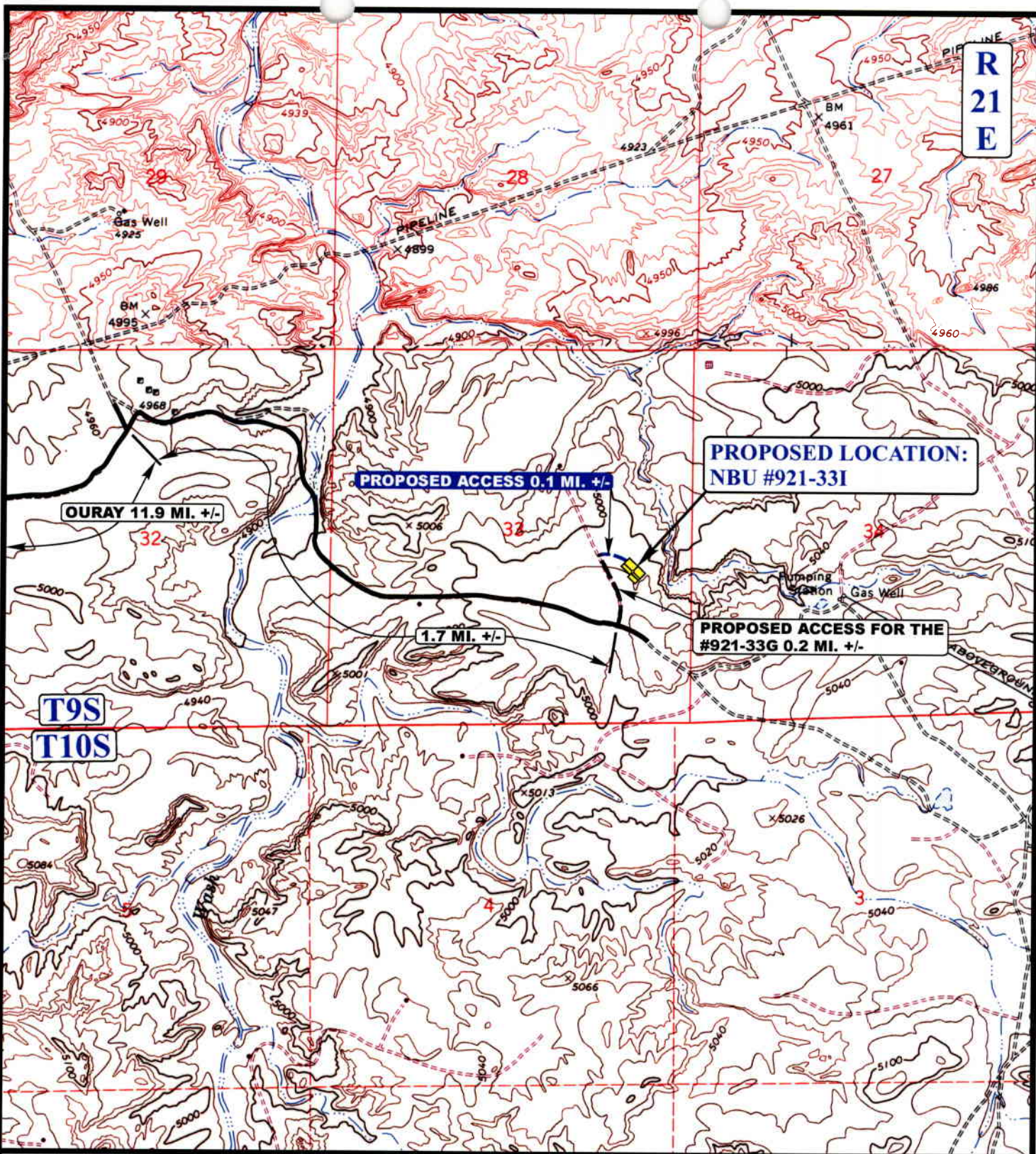
SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00







**LEGEND:**

— EXISTING ROAD  
 - - - PROPOSED ACCESS ROAD

**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #921-33I**

**SECTION 33, T9S, R21E, S.L.B.&M.**

**2240' FSL 878' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
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**TOPOGRAPHIC  
 MAP**

**01 07 05**  
 MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

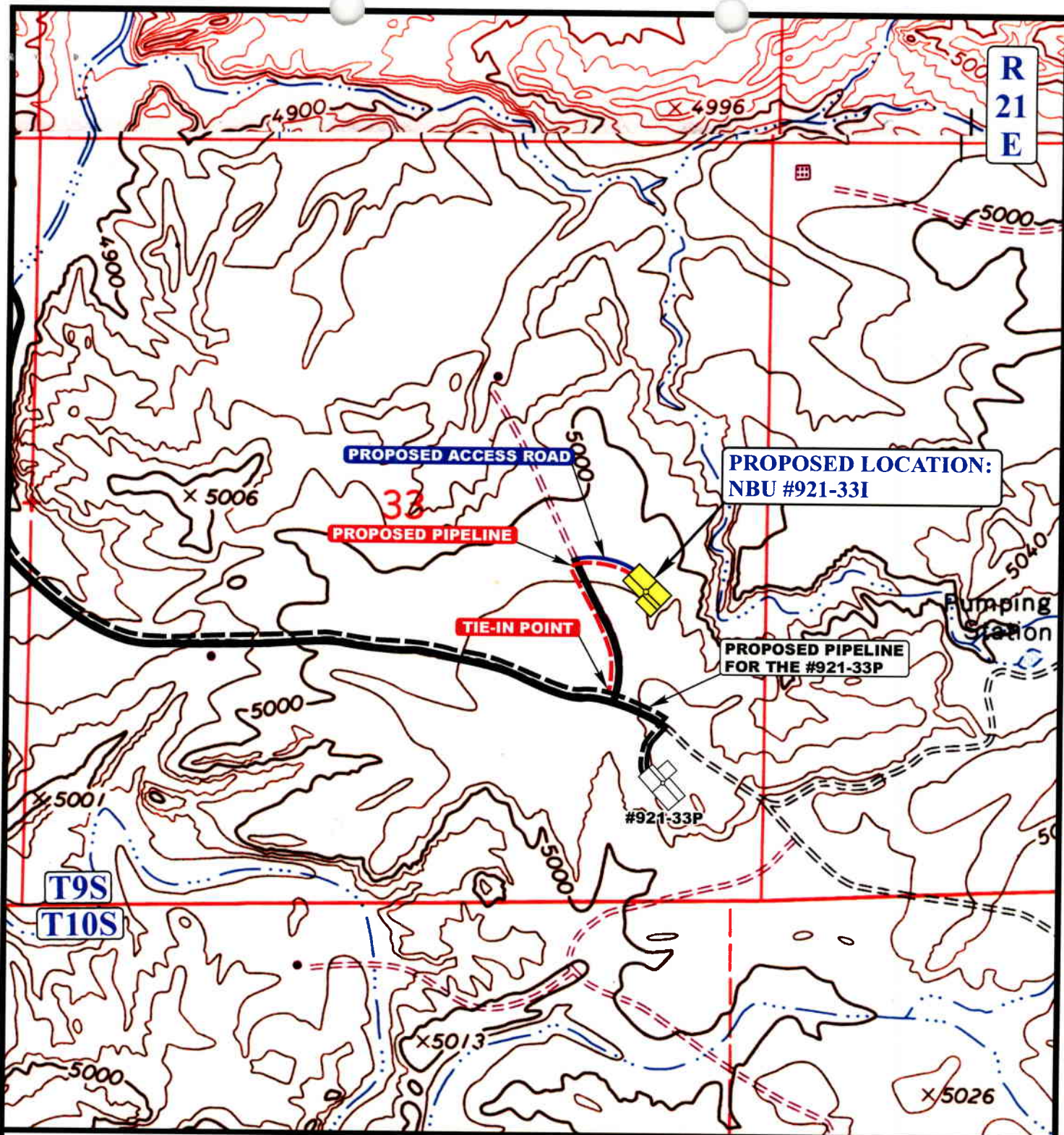
REVISED: 00-00-00

**B  
 TOPO**









# **LEGEND:**

- PROPOSED ACCESS ROAD**
- EXISTING PIPELINE**
- PROPOSED PIPELINE**

**WESTPORT OIL AND GAS COMPANY, L.P.**

**NBU #921-33I**

**SECTION 33, T9S, R21E, S.L.B.&M.**

**2240' FSL 878' FEL**



**Uintah Engineering & Land Surveying**  
 85 South 200 East Vernal, Utah 84078  
 (435) 789-1017 \* FAX (435) 789-1813



**TOPOGRAPHIC**  
**MAP**

**01 07 05**  
 MONTH DAY YEAR

**SCALE: 1" = 1000'** **DRAWN BY: C.P.** **REVISED: 00-00-00**

**D**  
**TOPO**

# WESTPORT OIL AND GAS COMPANY, L.P.

FIGURE #1

## LOCATION LAYOUT FOR

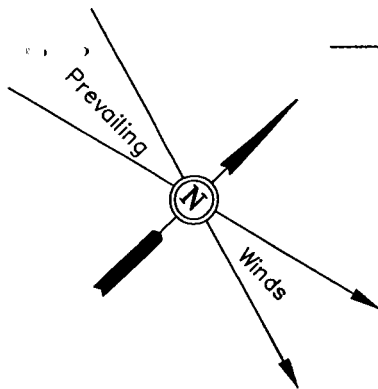
NBU #921-33I

SECTION 33, T9S, R21E, S.L.B.&M.

C-2.1'  
El. 5015.8'

F-0.5'  
El. 5013.2'

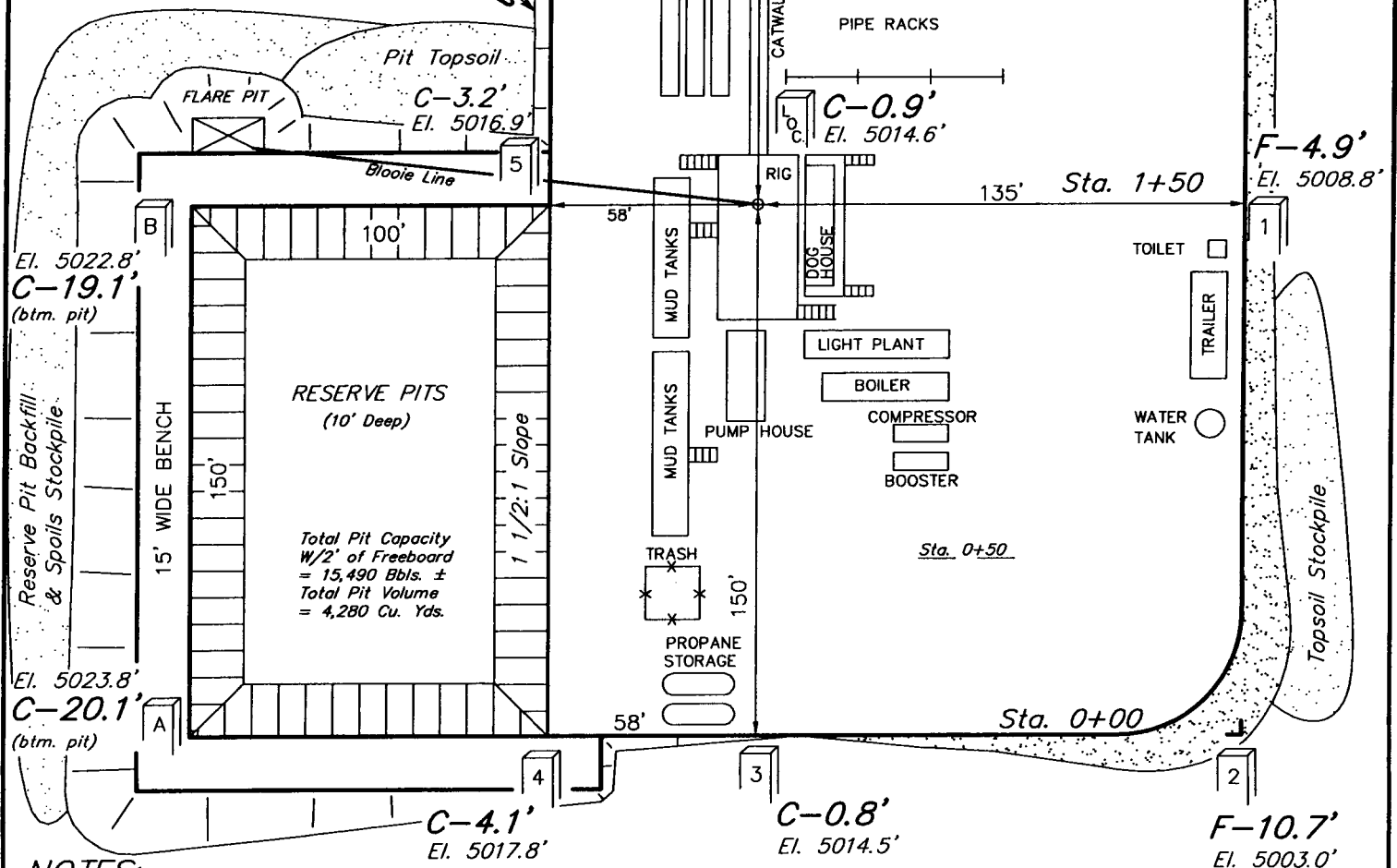
F-6.5'  
El. 5007.2'



SCALE: 1" = 50'  
DATE: 1-18-05  
Drawn By: E.C.O.

NOTE:  
Flare Pit is to be located  
a min. of 100' from the  
Well Head.

Approx.  
Top of  
Cut Slope



## NOTES:

Elev. Ungraded Ground At Loc. Stake = 5014.6'  
FINISHED GRADE ELEV. AT LOC. STAKE = 5013.7'

UINTAH ENGINEERING & LAND SURVEYING  
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# WESTPORT OIL AND GAS COMPANY, L.P.

FIGURE #2

## TYPICAL CROSS SECTIONS FOR

NBU #921-33I

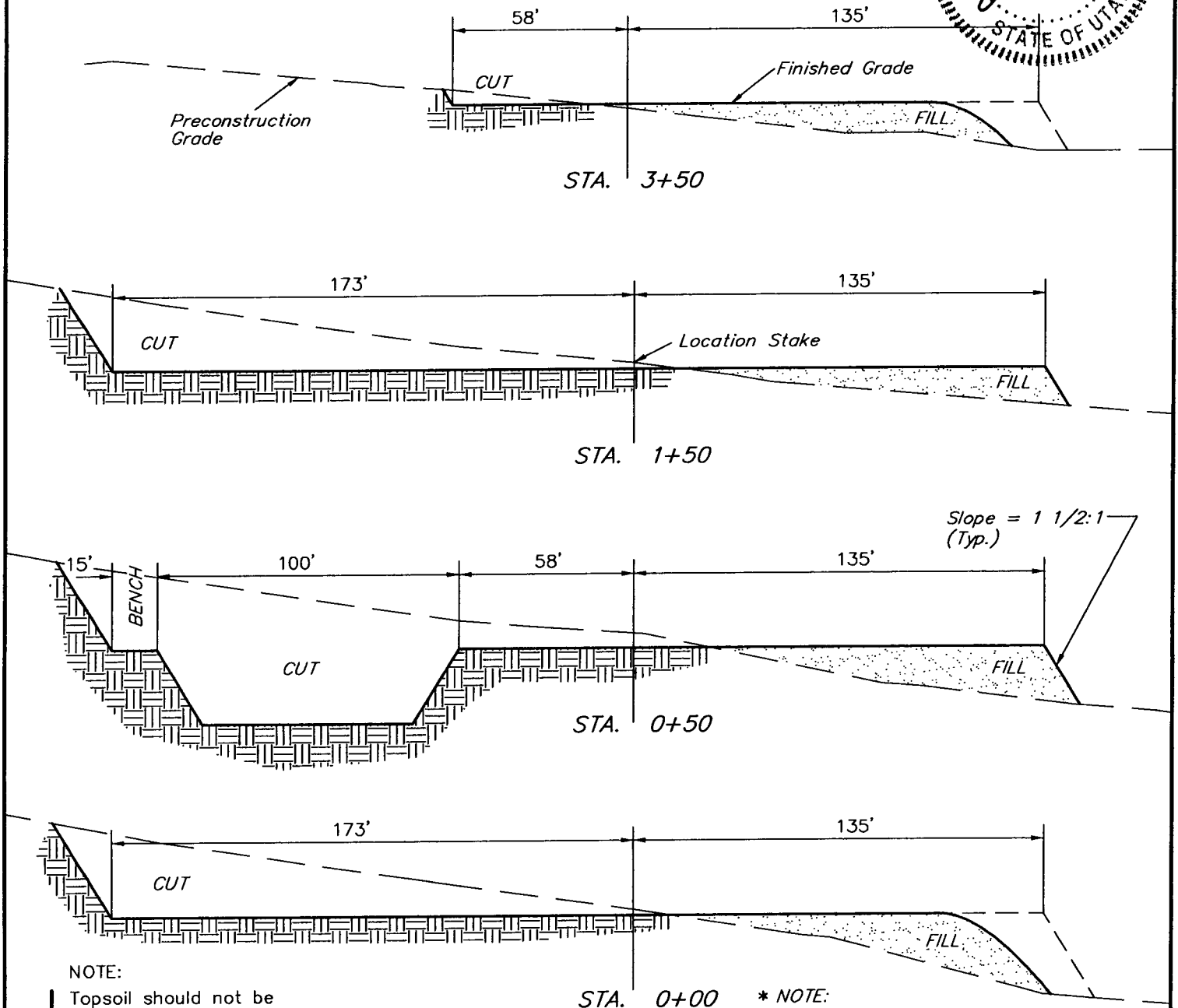
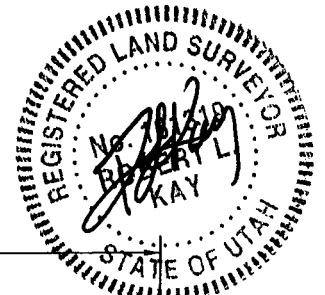
SECTION 33, T9S, R21E, S.L.B.&M.

2240' FSL 878' FEL

1" = 20'  
X-Section  
Scale  
1" = 50'

DATE: 1-18-05

Drawn By: E.C.O.



### NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

### \* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

### APPROXIMATE YARDAGES

#### CUT

(6") Topsoil Stripping = 1,920 Cu. Yds.

Remaining Location = 11,600 Cu. Yds.

TOTAL CUT = 13,520 CU.YDS.

FILL = 6,790 CU.YDS.

EXCESS MATERIAL = 6,730 Cu. Yds.

Topsoil & Pit Backfill = 4,060 Cu. Yds.  
(1/2 Pit Vol.)

EXCESS UNBALANCE = 2,670 Cu. Yds.  
(After Rehabilitation)

UINTAH ENGINEERING & LAND SURVEYING

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003

**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 03/15/2005

API NO. ASSIGNED: 43-047-36393

WELL NAME: NBU 921-33I

OPERATOR: WESTPORT OIL &amp; GAS CO ( N2115 )

CONTACT: DEBRA DOMENICI

PHONE NUMBER: 435-781-7060

## PROPOSED LOCATION:

NESE 33 090S 210E

SURFACE: 2240 FSL 0878 FEL

BOTTOM: 2240 FSL 0878 FEL

UINTAH

NATURAL BUTTES ( 630 )

LEASE TYPE: 3 - State

LEASE NUMBER: ML-22446

SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DLD	5/9/05
Geology		
Surface		

LATITUDE: 39.99087

LONGITUDE: -109.5496

## RECEIVED AND/OR REVIEWED:

☒ Plat

☒ Bond: Fed[] Ind[] Sta[] Fee[]  
 (No. RLB0005236 )

☒ Potash (Y/N)

☒ Oil Shale 190-5 (B) or 190-3 or 190-13

☒ Water Permit  
 (No. 43-8496 )

☒ RDCC Review (Y/N)  
 (Date: )

☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

R649-2-3.

Unit NATURAL BUTTES

R649-3-2. General

Siting: 460' From Qtr/Qtr &amp; 920' Between Wells

R649-3-3. Exception

☒ Drilling Unit

Board Cause No: 173-14

Eff Date: 12-2-1999

Siting: 4160' fr u b d r g f u n e m m . t r a c t

R649-3-11. Directional Drill

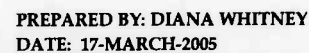
COMMENTS:

Needs Permit (3/30/05 PJ)

STIPULATIONS:

① Oil Shale

2- STATEMENT OF BASIS



# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

March 18, 2005

### Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2005 Plan of Development Natural Buttes Unit  
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2005 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ Mesaverde)

43-047-36388	NBU 921-34L	Sec 34 T09S R21E 2586 FSL 0379 FWL
43-047-36389	NBU 921-34K	Sec 34 T09S R21E 2543 FSL 2274 FWL
43-047-36390	NBU 921-34H	Sec 34 T09S R21E 2163 FNL 0839 FEL
43-047-36391	NBU 921-33F	Sec 33 T09S R21E 1797 FNL 1844 FWL
43-047-36392	NBU 921-33G	Sec 33 T09S R21E 1713 FNL 1754 FEL
43-047-36393	NBU 921-33I	Sec 33 T09S R21E 2240 FSL 0878 FEL
43-047-36394	NBU 921-33J	Sec 33 T09S R21E 2113 FSL 1951 FEL
43-047-36395	NBU 921-33K	Sec 33 T09S R21E 2066 FSL 1926 FWL
43-047-36396	NBU 921-33P	Sec 33 T09S R21E 0885 FSL 0719 FEL
43-047-36397	NBU 922-36C	Sec 36 T09S R22E 0720 FNL 1768 FWL
43-047-36398	NBU 922-36G	Sec 36 T09S R22E 2471 FNL 2464 FEL
43-047-36399	NBU 922-36H	Sec 36 T09S R22E 2546 FNL 1059 FEL
43-047-36400	NBU 922-36N	Sec 36 T09S R22E 0059 FSL 2066 FWL
43-047-36401	NBU 922-36O	Sec 36 T09S R22E 1202 FSL 2116 FEL
43-047-36402	NBU 1022-12I	Sec 12 T10S R22E 2297 FSL 1046 FEL
43-047-36403	NBU 1022-12P	Sec 12 T10S R22E 1083 FSL 0462 FEL

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

**ON-SITE PREDRILL EVALUATION**  
**Division of Oil, Gas and Mining**

**OPERATOR:** WESPORT OIL AND GAS COMPANY, L.P.

**WELL NAME & NUMBER:** NBU 921-33I

**API NUMBER:** 43-047-36393

**LEASE:** ML-22446      **FIELD/UNIT:** Natural Buttes

**LOCATION:** 1/4, 1/4 SENW **Sec:** 33 **TWP:** 9S **RNG:** 21E    878' FEL    2240' FSL

**LEGAL WELL SITING:** 460 from the unit boundary or uncommitted tracts.

**GPS COORD (UTM):** GPS not working      **SURFACE OWNER:** STATE OF UTAH

**PARTICIPANTS**

Dan J. Jarvis (DOGM), DEBRA DOMENICI (WESTPORT). Robert KAY (UELS).

**REGIONAL/LOCAL SETTING & TOPOGRAPHY**

The regional setting is generally badlands type topography. Flat mesas with deep cut washes and draws are the predominate features. This site is an area of low rolling hills and shallow draws. No major drainages are in the immediate area of the location. Ouray Utah is approximately 17 miles to the northwest of the location. Cottonwood wash is the major drainage in the area and is approximately 1 mile away. Cottonwood wash is a dry watercourse for most of the year.

**SURFACE USE PLAN**

**CURRENT SURFACE USE:** Wildlife and livestock grazeing and sport hunting.

**PROPOSED SURFACE DISTURBANCE:** location will be 350' by 293'. Approximately .1 mile of new access road will be built.

**LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS:** See attached map from GIS Database.

**LOCATION OF PRODUCTION FACILITIES AND PIPELINES:** All production facilities will be on location and constructed after drilling the well. The pipeline will follow the access road.

**SOURCE OF CONSTRUCTION MATERIAL:** All construction material will be borrowed from site during the construction of the location.

**ANCILLARY FACILITIES:** None will be required.

**WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST OR CONCERNS? (EXPLAIN):** UNLIKELY.

**WASTE MANAGEMENT PLAN:**

Drilled cuttings will be allowed to settle to the bottom of the reserve pit. Liquids from the pit will be allowed to evaporate. Formation water will be confined to storage tanks. Sewage facilities, storage and

general waste disposal will be handled by a commercial contractor. Trash will be contained in trash baskets and hauled to an approved landfill.

#### **ENVIRONMENTAL PARAMETERS**

AFFECTED FLOODPLAINS AND/OR WETLANDS: None

FLORA/FAUNA: Sagebrush, Shad scale, Prickly Pear, Cheat Grass, Antelope, Coyotes, Songbirds, Raptors, Rodents, Rabbits.

SOIL TYPE AND CHARACTERISTICS: Light brown sandy clay.

SURFACE FORMATION AND CHARACTERISTICS: Uinta formation consisting of shales and sandstones. There are no ledges or outcrops on this location, the surface formation in very close to the surface, the pit will most likely be built in rock.

EROSION/SEDIMENTATION/STABILITY: Very little natural erosion. Sedimentation and stability are not a problem. Construction of the location will not increase any erosion problems.

PALEONTOLOGICAL POTENTIAL: None observed

#### **RESERVE PIT**

CHARACTERISTICS: 100' BY 150' AND 10' DEEP.

LINER REQUIREMENTS (Site Ranking Form attached): A plastic liner will be required based on the ranking form, Westport will line the pit with felt and a 20 mil liner as per company policy.

#### **SURFACE RESTORATION/RECLAMATION PLAN**

As per SITLA.

SURFACE AGREEMENT: As per SITLA.

CULTURAL RESOURCES/ARCHAEOLOGY: The site has been surveyed by an archeological consulting firm. No archeological sites were found. A report of this investigation will be placed on file.

#### **OTHER OBSERVATIONS/COMMENTS**

This presite was conducted on a partly cloudy day with a light breeze. The ground was clear of all snow cover.

#### **ATTACHMENTS**

Photo taken and placed in file.

Dan Jarvis  
DOGM REPRESENTATIVE

4/5/2005,

DATE/TIME

**Evaluation Ranking Criteria and Ranking Score  
For Reserve and Onsite Pit Liner Requirements**

<u>Site-Specific Factors</u>	<u>Ranking</u>	<u>Site Ranking</u>
Distance to Groundwater (feet)		
>200	0	
100 to 200	5	
75 to 100	10	
25 to 75	15	
<25 or recharge area	20	<u>5</u>
Distance to Surf. Water (feet)		
>1000	0	
300 to 1000	2	
200 to 300	10	
100 to 200	15	
< 100	20	<u>0</u>
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320	10	
<500	20	<u>0</u>
Distance to Other Wells (feet)		
>1320	0	
300 to 1320	10	
<300	20	<u>0</u>
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	<u>10</u>
Fluid Type		
Air/mist	0	
Fresh Water	5	
TDS >5000 and <10000	10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of hazardous constituents	20	<u>5</u>
Drill Cuttings		
Normal Rock	0	
Salt or detrimental	10	<u>0</u>
Annual Precipitation (inches)		
<10	0	
10 to 20	5	
>20	10	<u>0</u>
Affected Populations		
<10	0	
10 to 30	6	
30 to 50	8	
>50	10	<u>0</u>
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown	10	
Present	15	<u>0</u>

**Final Score**      20      (Level III Sensitivity)

Sensitivity Level I = 20 or more; total containment is required.

Sensitivity Level II = 15-19; lining is discretionary.

Sensitivity Level III = below 15; no specific lining is required.



**DIVISION OF OIL, GAS AND MINING  
APPLICATION FOR PERMIT TO DRILL  
STATEMENT OF BASIS**

**OPERATOR:** WESTPORT OIL AND GAS COMPANY, L.P.  
**WELL NAME & NUMBER:** NBU 921-33I  
**API NUMBER:** 43-047-36393  
**LOCATION:** 1/4,1/4 NE/SE Sec: 33 TWP: 9S RNG: 21E 878' FEL 2240' FSL

**Geology/Ground Water:**

Westport proposes to set 2,500' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 3,400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 33. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water.

**Reviewer:** Dan Jarvis **Date:** 4/5/2005

**Surface:**

The predrill investigation of the surface was performed on 4/30/2005. Floyd Bartlett with DWR and Ed Bonner with SITLA were invited to this investigation on 3/22/05. Neither agency were in attendance. . This site is on State surface with State minerals. This site appears to be the best site for a location in the immediate area. .

**Reviewer:** Dan Jarvis **Date:** 4/5/2005

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 20 mils and a felt subliner shall be properly installed and maintained in the reserve pit.
2. The entire pad shall be bermed to prevent any fluids from leaving the location.





**From:** Ed Bonner  
**To:** Whitney, Diana  
**Date:** 4/6/2005 4:10:32 PM  
**Subject:** Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

Westport Oil & Gas Company

NBU 921-33F  
NBU 921-33G  
NBU 921-33I  
NBU 921-33J  
NBU 921-33K  
NBU 921-33P  
NBU 921-34H  
NBU 921-34K  
NBU 921-34L  
NBU 1022-12I  
NBU 1022-12P  
State 1021-36A  
State 1021-36B  
State 1021-36G  
State 1021-36H  
State 1021-36I  
State 1021-36J  
State 1021-36O  
State 1021-36P

If you have any questions regarding this matter please give me a call.

**CC:** Garrison, LaVonne; Hill, Brad; Hunt, Gil

**Clinton Dworshak - Westport APD(s)**

---

**From:** "Upchego, Sheila" <SUpchego@kmg.com>  
**To:** <clintondworshak@utah.gov>  
**Date:** 4/21/2005 4:27 PM  
**Subject:** Westport APD(s)

---

Hi Clint, attached are the revised Downhole diagrams for the following well locations:

NBU 921-33F, 921-33G, 921-33I, 921-33J, 921-33K, 921-33P, 921-33O, 921-33N;  
NBU 921-34H, 921-34K, 921-34L;  
NBU 922-36B

If you have any questions please feel free to contact me at (435) 781-7024 or Brad Laney at (435) 781-7031.

Sheila Upchego <<NBU921-33F\_APD(pipeline).xls>> <<NBU921-33G\_APD(pipeline).xls>> <<NBU921-33I\_APD(pipeline).xls>>  
<<NBU921-33J\_APD(pipeline).xls>> <<NBU921-33K\_APD(pipeline).xls>> <<NBU921-33P\_APD(pipeline).xls>> <<NBU921-  
34H\_APD(pipeline).xls>> <<NBU921-34K\_APD(pipeline).xls>> <<NBU921-34L\_APD(pipeline).xls>> <<NBU921-33O\_APD  
(pipeline).xls>> <<NBU921-33N\_APD(pipeline).xls>> <<NBU922-36B\_DHD\_APD.xls>>

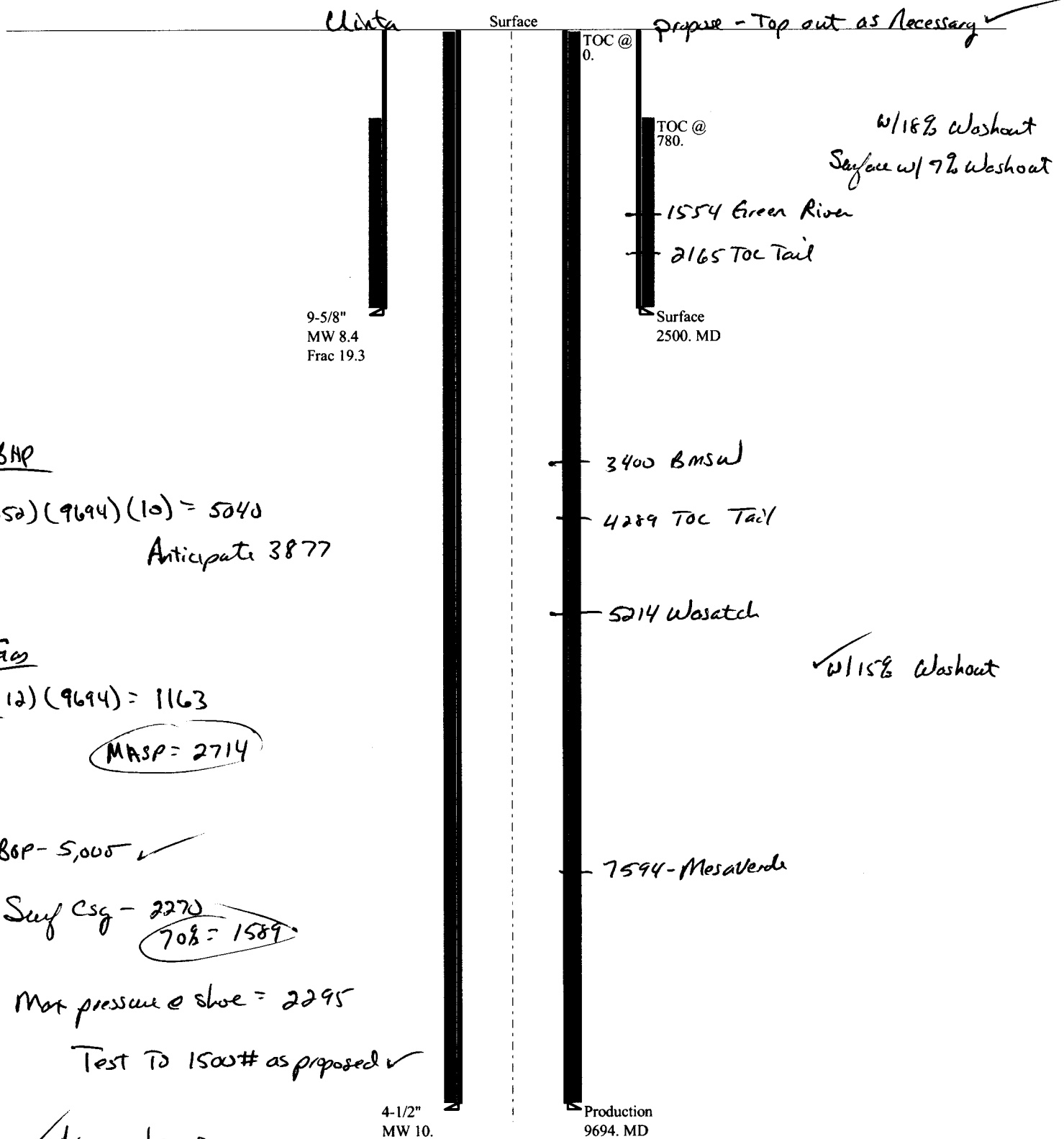
**Important Notice!!**

If you are not the intended recipient of this e-mail message, any use, distribution or copying of the message is prohibited.  
Please let me know immediately by return e-mail if you have received this message by mistake,  
then delete the e-mail message.

Thank you.

# 04-05 Westport NBU 921-I

## Casing Schematic



BHP

$$(0.52)(9694)(10) = 5040$$

Anticipate 3877

G<sub>as</sub>

$$(0.12)(9694) = 1163$$

$$\text{MASP} = 2714$$

BOP - 5,000 ✓

Surf Csg - 2270  
70% = 1589

Max pressure @ shoe = 2295

Test TD 1500# as proposed ✓

✓ Adequate DWD 5/9/05

Well name:  
Operator: **Westport Oil & Gas**  
String type: **Surface**  
Location: **Uintah County**

## 04-05 Westport NBU 921-33I

Project ID:  
43-047-36393

### Design parameters:

#### Collapse

Mud weight: 8.400 ppg  
Design is based on evacuated pipe.

### Minimum design factors:

#### Collapse:

Design factor 1.125

#### Burst:

Design factor 1.00

### Environment:

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 110 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: 780 ft

#### Burst

Max anticipated surface pressure: 2,200 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 2,500 psi

No backup mud specified.

#### Tension:

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on buoyed weight.  
Neutral point: 2,218 ft

Non-directional string.

#### Re subsequent strings:

Next setting depth: 9,694 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 5,036 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 2,500 ft  
Injection pressure 2,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
2	2100	9.625	32.30	H-40	ST&C	2100	2100	8.876	133.1
1	400	9.625	36.00	J-55	LT&C	2500	2500	8.796	28.5
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
2	916	1368	1.492	2452	2270	0.93	72	254	3.52 J
1	1091	2020	1.852	2500	3520	1.41	4	453	99.99 J

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: April 22, 2005  
Salt Lake City, Utah

#### Remarks:

Collapse is based on a vertical depth of 2500 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

Well name:  
Operator: **Westport Oil & Gas**  
String type: Production  
Location: Uintah County

## 04-05 Westport NBU 921-33I

Project ID:  
43-047-36393

### Design parameters:

#### Collapse

Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

### Minimum design factors:

#### Collapse:

Design factor 1.125

#### Burst:

Design factor 1.00

### Environment:

H2S considered? No  
Surface temperature: 75 °F  
Bottom hole temperature: 211 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,500 ft

Cement top: Surface

#### Burst

Max anticipated surface pressure: 1,765 psi  
Internal gradient: 0.337 psi/ft  
Calculated BHP 5,036 psi

No backup mud specified.

#### Tension:

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.  
Neutral point: 8,245 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
2	8100	4.5	11.60	J-55	ST&C	8100	8100	3.875	187.8
1	1594	4.5	11.60	M-80	LT&C	9694	9694	3.875	36.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
2	4208	4956	1.178	4498	5350	1.19	96	154	1.61 J
1	5036	6350	1.261	5036	7780	1.54	2	267	99.99 B

Prepared by: Clinton Dworshak  
Utah Div. of Oil & Mining

Phone: 801-538-5280  
FAX: 801-359-3940

Date: April 22, 2005  
Salt Lake City, Utah

#### Remarks:

Collapse is based on a vertical depth of 9694 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

**State of Utah****Department of  
Natural Resources**

MICHAEL R. STYLER  
*Executive Director*

**Division of  
Oil, Gas & Mining**

JOHN R. BAZA  
*Division Director*

JON M. HUNTSMAN, JR.  
*Governor*

GARY R. HERBERT  
*Lieutenant Governor*

May 10, 2005

Westport Oil & Gas Company, LP  
1368 South 1200 East  
Vernal, Utah 84078

Re: Natural Buttes Unit 921-331 Well, 2240' FSL, 878' FEL, NE SE, Sec. 33,  
T. 9 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-36393.

Sincerely,

A handwritten signature in black ink, appearing to read "Gil Hunt".

Gil Hunt  
Acting Associate Director

pab  
Enclosures

cc: Uintah County Assessor  
SITLA  
Bureau of Land Management, Vernal District Office

**Operator:** Westport Oil & Gas Company, LP  
**Well Name & Number** Natural Buttes Unit 921-33I  
**API Number:** 43-047-36393  
**Lease:** ML-22446

**Location:** NE SE **Sec.** 33 **T.** 9 South **R.** 21 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

**3. Reporting Requirements**

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.**

**5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)**

Page 2

API #43-047-36393

May 10, 2005

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.



## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: WESTPORT OIL & GAS COMPANY LP

Well Name: NBU 921-33I

Api No: 43-047-36393 Lease Type: STATE

Section 33 Township 09S Range 21E County UINTAH

Drilling Contractor PETE MARTIN'S RIG # BUCKET

### **SPUDDED:**

Date 04/01/06

Time 12:00 NOON

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by LOU WELDON

Telephone # (435) 781-7035

Date 04/03/2006 Signed CHD

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**Operator: WESTPORT OIL & GAS COMPANY L.P.Operator Account Number: N 2115Address: 1388 SOUTH 1200 EASTcity VERNALstate UTzip 84078Phone Number: (435) 781-7024**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304735482	NBU 1021-11D		NWNW	11	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	4/1/2006		<u>4/6/06</u>		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <u>MVRD = WSMVD</u> SPUD WELL LOCATION ON 04/01/2006 AT 1200 HRS. <span style="float: right;">— K</span>							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304735267	NBU 1021-11E		SWNW	11	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	4/2/2006		<u>4/6/06</u>		
<b>Comments:</b> MIRU PETE MARTIN BUCKET RIG. <u>MVRD = WSMVD</u> SPUD WELL LOCATION ON 04/02/2006 AT 0600 HRS. <span style="float: right;">— K</span>							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304736393	NBU 921-33I		NESE	33	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	4/1/2006		<u>4/6/06</u>		
<b>Comments:</b> MIRU ROCKY MOUNTAIN DRILLING. <u>WSMVD</u> SPUD WELL LOCATION ON 04/01/2006 AT 1200 HRS. <span style="float: right;">— K</span>							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO

Name (Please Print)

Signature

REGULATORY ANALYST

4/3/2006

Title

Date

To: BARBARA RUSSELL From: SHEILA UPCHEGO  
 Co./Dept: UTDOGM Co.: WESTPORT OIL & GAS CO. LP  
 Phone #: (801) 538-5330 Phone #: (435) 781-7024  
 Fax #: (801) 359-3440 Fax #: (435) 781-7094

(5/2000)

**RECEIVED****APR 03 2006**

DIV. OF OIL, GAS &amp; MINING

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL		5. LEASE DESIGNATION AND SERIAL NUMBER	
OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		ML-22446	
2. NAME OF OPERATOR		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
WESTPORT OIL & GAS COMPANY L.P.		7. UNIT or CA AGREEMENT NAME	
3. ADDRESS OF OPERATOR		8. WELL NAME and NUMBER	
1368 S. 1200 E. VERNAL UT 84078		NBU 921-331	
4. LOCATION OF WELL		9. API NUMBER	
FOOTAGES AT SURFACE: 2240'FSL, 878'FEL		4304736393	
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 33 9S 21E		10. FIELD AND POOL, OR WILDCAT	
COUNTY: UINTAH		NATURAL BUTTES	
STATE: UTAH			

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER WELL SPUD
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU ROCKY MOUNTAIN DRILLING. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULED 10 PIPE.  
CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 04/01/2006 AT 1200 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE REGULATORY ANALYST
SIGNATURE <i>Sheila Upchego</i>	DATE 4/3/2006

(This space for State use only)

**RECEIVED**  
**APR 12 2006**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2240'FSL, 878'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 33 9S 21E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-22446

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
NATURAL BUTTES UNIT

8. WELL NAME and NUMBER:  
NBU 921-33I

9. API NUMBER:  
4304736393

10. FIELD AND POOL, OR WILDCAT:  
NATURAL BUTTES

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: SET SURFACE CSG
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG #3 ON 04/12/2006 AT 0300 HRS. DRILLED 12 1/4" SURFACE HOLE TO 2160'. RAN 9 5/8" OF 1924.8' OF 32.3# H-40 AND 397.6' OF 36# J-55 SURFACE CSG. LEAD CMT W/350 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TOP OUT W/325 SX CLASS G @15.8 PPG 1.15 YIELD. CMT TO SURFACE CMT STAYED AT SURFACE.

WORT

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 4/18/2006

(This space for State use only)

RECEIVED

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

**ROUTING**

1. DJJ

2. CDW

**X Change of Operator (Well Sold)**

Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective:

**1/6/2006**

**FROM:** (Old Operator):

N2115-Westport Oil & Gas Co., LP  
 1368 South 1200 East  
 Vernal, UT 84078

Phone: 1-(435) 781-7024

**TO:** ( New Operator):

N2995-Kerr-McGee Oil & Gas Onshore, LP  
 1368 South 1200 East  
 Vernal, UT 84078

Phone: 1-(435) 781-7024

**CA No.**

**Unit:**

**NATURAL BUTTES UNIT**

**WELL NAME**

**SEC TWN RNG**

**API NO**

**ENTITY**

**LEASE**

**WELL**

**WELL**

**NO**

**TYPE**

**TYPE**

**STATUS**

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 3/7/2006
- 4a. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
- 4b. If **NO**, the operator was contacted on:
- 5a. (R649-9-2) Waste Management Plan has been received on: IN PLACE
- 5b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
- 5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet
7. **Federal and Indian Units:**  
 The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006
8. **Federal and Indian Communization Agreements ("CA"):**  
 The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject**, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

**DATA ENTRY:**

1. Changes entered in the **Oil and Gas Database** on: 5/15/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 5/15/2006
3. Bond information entered in RBDMS on: 5/15/2006
4. Fee/State wells attached to bond in RBDMS on: 5/16/2006
5. Injection Projects to new operator in RBDMS on:
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

**BOND VERIFICATION:**

1. Federal well(s) covered by Bond Number: CO1203
2. Indian well(s) covered by Bond Number: RLB0005239
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236
- a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG  
 The Division sent response by letter on:

**LEASE INTEREST OWNER NOTIFICATION:**

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

**Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on reverse side**

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

**KERR-McGEE OIL & GAS ONSHORE LP**

3a. Address

**1368 SOUTH 1200 EAST VERNAL, UT 84078**

3b. Phone No. (include area code)

**(435) 781-7024**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**SEE ATTACHED**

5. Lease Serial No.

**MULTIPLE LEASES**

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

**MUTIPLE WELLS**

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

**UINTAH COUNTY, UTAH**

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.

KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

**RECEIVED**

**MAY 10 2006**

DIV. OF OIL, GAS & MINING

**BLM BOND = C01203**

**BIA BOND = RLB0005239**

**APPROVED 5/16/06**

**Earlene Russell**  
Division of Oil, Gas and Mining  
**Earlene Russell, Engineering Technician**

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

**RANDY BAYNE**

Title

**DRILLING MANAGER**

Signature

Date

**May 9, 2006**

**THIS SPACE FOR FEDERAL OR STATE USE**

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires November 30, 2000

5. Lease Serial No.

MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

MUTIPLE WELLS

9. API Well No.

10. Field and Pool, or Exploratory Area

11. County or Parish, State

UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

WESTPORT OIL & GAS COMPANY L.P.

3a. Address

1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. (include area code)

(435) 781-7024

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

SEE ATTACHED

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other CHANGE OF OPERATOR
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

APPROVED 5/16/06  
*Earlene Russell*  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician

RECEIVED  
MAY 10 2006

DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed)

BRAD LANEY

Signature

Title

ENGINEERING SPECIALIST

Date

May 9, 2006

THIS SPACE FOR FEDERAL OR STATE USE

Approved by

*Brad Laney*

Title

Date

5-9-06

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22446
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2240'FSL, 878'FEL		8. WELL NAME and NUMBER: NBU 921-33I
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 33 9S 21E		9. API NUMBER: 4304736393
COUNTY: UINTAH		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
STATE: UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2160' TO 9750'. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/380 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1430 SX 50/50 POZ @14.3 PPG 1.31 YIELD. SET SLIPS ND BOPE CUT OFF CSG. JET AND CLEAN PITS.

RELEASED ENSIGN RIG 83 ON 05/15/2006 AT 1400 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 5/17/2006

(This space for State use only)

RECEIVED

MAY 26 2006



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL OIL WELL ☐ GAS WELL ☒ OTHER \_\_\_\_\_

2. NAME OF OPERATOR:  
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:  
1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:  
(435) 781-7024

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 2240'FSL, 878'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 33 9S 21E

STATE: UTAH

5. LEASE DESIGNATION AND SERIAL NUMBER:  
ML-22446

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:  
UNIT #891008900A

8. WELL NAME and NUMBER:  
NBU 921-33I

9. API NUMBER:  
4304736393

10. FIELD AND POOL, OR WILDCAT:  
NATURAL BUTTES

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

☐ NOTICE OF INTENT  
(Submit in Duplicate)  
Approximate date work will start:  
\_\_\_\_\_

☒ SUBSEQUENT REPORT  
(Submit Original Form Only)  
Date of work completion:  
\_\_\_\_\_

TYPE OF ACTION

☐ ACIDIZE

☐ ALTER CASING

☐ CASING REPAIR

☐ CHANGE TO PREVIOUS PLANS

☐ CHANGE TUBING

☐ CHANGE WELL NAME

☐ CHANGE WELL STATUS

☐ COMMINGLE PRODUCING FORMATIONS

☐ CONVERT WELL TYPE

☐ DEEPEN

☐ FRACTURE TREAT

☐ NEW CONSTRUCTION

☐ OPERATOR CHANGE

☐ PLUG AND ABANDON

☐ PLUG BACK

☐ PRODUCTION (START/RESUME)

☐ RECLAMATION OF WELL SITE

☐ RECOMPLETE - DIFFERENT FORMATION

☐ REPERFORATE CURRENT FORMATION

☐ SIDETRACK TO REPAIR WELL

☐ TEMPORARILY ABANDON

☐ TUBING REPAIR

☐ VENT OR FLARE

☐ WATER DISPOSAL

☐ WATER SHUT-OFF

☒ OTHER: PRODUCTION  
START-UP

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 05/26/2006 AT 1:45 PM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 5/30/2006

(This space for State use only)

JUN 05 2006

# WESTPORT OIL & GAS COMPANY, LP

## CHRONOLOGICAL HISTORY

### NBU 921-33I

UINTAH COUNTY, UT

	SPUD	Surface Casing	Activity	Status
03/17/06			Build Location, 20% complete	Pioneer 52
03/20/06			Build Location, 30% complete	Pioneer 52
03/21/06			Build Location, 40% complete	Pioneer 52
03/22/06			Build Location, 45% complete	Pioneer 52
03/23/06			Build Location, 45% complete	Pioneer 52
03/24/06			Build Location, 55% complete	Pioneer 52
03/27/06			Build Location, 55% complete	Pioneer 52
03/30/06			Build Location, 85% complete	Pioneer 52
03/31/06			Build Location, 95% complete	Pioneer 52
04/03/06			Location Complete, WOBR	Pioneer 52
04/06/06	04/01/06		Set conductor, WOAR	Pioneer 52
04/13/06	04/12/06		Air Rig spud, Drlg	Pioneer 52
04/18/06	04/12/06	9 5/8" @ 2339'	WORT	Pioneer 52
04/16/06	04/12/06	9 5/8" @ 2339'	Ring in, WORT	Pioneer 52
05/02/06	TD: 2160'	Csg. 9 5/8" @ 2468'	MW: 8.4 SD: 5/XX/06 DSS: 0 Move to NBU 921-33I. Spot rig, 100% moved, 85% rigged up @ report time.	
05/03/06	TD: 2495'	Csg. 9 5/8" @ 2468'	MW: 8.4 SD: 5/03/06 DSS: 0 RURT. NU and test BOPE. PU 7 7/8" PDC bit and MM and drill FE. Drill from 2160'-2495'. DA @ report time.	
05/04/06	TD: 3824'	Csg. 9 5/8" @ 2468'	MW: 8.4 SD: 5/03/06 DSS: 2 Drill from 2495'-3824'. DA @ report time.	
05/05/06	TD: 5269'	Csg. 9 5/8" @ 2468'	MW: 8.4 SD: 5/03/06 DSS: 3 Drill from 3824'-5269'. DA @ report time.	

05/08/06 TD: 8105' Csg. 9 5/8" @ 2468' MW: 10.5 SD: 5/03/06 DSS: 6  
Drill from 5269'-8105'. DA @ report time.

05/09/06 TD: 8600' Csg. 9 5/8" @ 2468' MW: 11.3 SD: 5/03/06 DSS: 7  
Drill from 8105'-8345'. Work on light plant. Drill to 8393'. Raise mud weight to 11/3 ppg to control gas. Drill to 8800'. DA @ report time.

05/10/06 TD: 9016' Csg. 9 5/8" @ 2468' MW: 11.4 SD: 5/03/06 DSS: 8  
Drill from 8800'-9016'. DA @ report time.

05/11/06 TD: 9270' Csg. 9 5/8" @ 2468' MW: 11.5 SD: 5/03/06 DSS: 9  
Drill from 9016'-9270'. DA @ report time.

05/15/06 TD: 9750' Csg. 9 5/8" @ 2468' MW: 12.5 SD: 5/03/06 DSS: 13  
PU new bit and MM. TIH and drill from 9290'-9750' TD. CCH and raise mud weight for logs. POOH and run Triple Combo. TIH and CCH for casing. Run 4 1/2" Production Casing. CBU and cement casing @ report time.

05/16/06 TD: 9750' Csg. 9 5/8" @ 2468' MW: 12.5 SD: 5/03/06 DSS: 14  
Cement 4 1/2" Production Casing. Set slips and ND BOPE. Release rig @ 1400 hrs 5/15/06. RDRT @ report time. Will move to NBU 921-34K this am.

05/19/06 PROG: RIG DN ROAD RIG TO LOC SPOT EQUIP RIG UP N/U BOP TALLY & PICK UP 2-3/8 L-80 TBG 176 JTS EOT 8156' SDFWE

05/22/06 PROG: 7:00 AM HSM. RIHW/50 JTS OF 2-3/8"L-80 TBG TAG PBTD @ 9,705' 306 JTS. RU RIG PMP & CIRC WL CLEAN. POOH LD 22 JTS OF 2-3/8" TBG. & STAND BACK 142 STANDS. ND BOP'S NU FRAC VALVES. MIRU CUTTERS TO LOG & PERFORATE ZONE 1. TAG PBTD @ 9,690' RUN CEMENT BOND LOG TO 1,650' GOOD BOND. MIRU B&C QUICK TEST TO PRESS TEST CSG & FRAC VALVES. TEST CSG & BOTH FRAC VALVES TO 7,500 #. GOOD TEST. RIH W/ 3-3/8" EXP GUNS 23 GRM. .35 HOLES 90 & 120 DEG PHASING. PERFORATE 9,660' - 9,663' 3 SPF, 9,619' - 9,622' 3 SPF, 9,541' - 9,544' 4 SPF, 9,395' - 9,399' 4 SPF, 46 HOLES. POOH SWI SDFN 5:00 PM.

05/23/06 PROG: 10:00 AM HSM. MIRU CUTTERS & SCHLUMBERGER TO FRAC & PERFORATE PRESSURE TEST PMPS & LINES TO 8,500 #

STG 1) WHP 1,770 #, BRK 3,755 #, ISIP 2,600 #, FG .71  
PMP 150 BBLS @ 50.1 @ 5,700 #, = 36 OF 46 HOLES OPEN  
MP 7,206 #, MR 50.2 BPM, AP 5,486 #, AR 42.3 BPM, ISIP 3,100 #, FG .76  
NPI 500 #, PMP 684 BBLS OF SLICK WATER, PMP 9,200 # OF 30/50 SD & 5,000 # OF TLC (resin coated sand) TOTAL OF 14,200 #

STG 2 ) RIH W/ 3-3/8" EXP GUNS 23 GRM, .35 HOLES 90 & 120 DEG PHASING  
SET 8K BAKER CBP @ 9,290' & PERFORATE 9,251' - 54' 4 SPF, 9,218' - 22' 3 SPF, 9,171' - 74' 4 SPF, 9,154' - 57' 3 SPF, 45 HOLES.  
POOH W/ WIRE LINE SWI SDFN 6:30 PM

05/24/06 PROG: 7:00 AM HSM. PRESS TEST PMPS & LINES TO 8,464 #.

STG 2) WHP 191 #, BRK 4,684 #, @ 5.3 BPM, ISIP 3,126 #, FG .78 PMP 150 BBLS @ 50.1 @ 6,400 #, = 30 OF 45 HOLES OPEN. MP 7,155 #, MR 50.7 BPM, AP 5,935 #, AR 46.5 BPM, ISIP 3,906 #, FG .86 NPI 780 #, PMP 1,359 BBLS OF SLICK WATER, PMP 42,400 # OF 30/50 SAND & 6,000 # OF TLC (resin coated sand) TOTAL OF 48,400 #.

STG 3) RIH W/ 3 3/8" EXP GUNS, 23 GRM, 35 HOLES 90 & 120 DEG PHASING SET 8K BAKER CBP @ 9,056' & PERF 9,024' - 26' 4 SPF, 8,945' - 49' 4 SPF, 8,918' - 20' 4 SPF, 8,853' - 55' 3 SPF, 8,779' - 81' 4 SPF, 46 HOLES. WHP 510 #, BRK 3,581 #, @ 5.2 BPM, ISIP 2,930 #, FG .77 PMP 150 BBLS @ 49.5 @ 6,000 #, = 38 OF 46 HOLES OPEN MP 6,668 #, MR 49.7 BPM, AP 5,330 #, AR 47.1 BPM, ISIP 3,901 #, FG .88 NPI 971 #, PMP 1,830 BBLS OF SLICK WATER, PMP 57,600 # OF 30/50 SAND & 6,000 # OF TLC (resin coated sand) TOTAL OF 63,600 #.

STG 4) RIH W/ 3 3/8" EXP GUNS, 23 GRM, .35 HOLES 90 & 120 DEG PHASING SET 8K BAKER CBP @ 8,683' & PERF 8,648' - 53' 3 SPF, 8,598' - 8,600' 3 SPF, 8,576' - 80' 4 SPF, 8,477' - 79' 4 SPF, 45 HOLES. WHP 2,870 #, BRK 3,330 #, @ 5.3 BPM, ISIP 3,180 #, FG .81 PMP 150 BBLS @ 50.0 @ 5,500 #, = 42 OF 45 HOLES OPEN MP 6,571 #, MR 50.1 BPM, AP 5,065 #, AR 46.9 BPM, ISIP 3,601 #, FG .86 NPI 421 #, PMP 2,014 BBLS OF SLICK WATER, PMP 62,700 # OF 30/50 SAND & 6,000 # OF TLC (resin coated sand) TOTAL OF 68,700 #.

STG 5) RIH W/ 3 3/8" EXP GUNS, 23 GRM, .35 HOLES 90 & 120 DEG PHASING SET 8K BAKER CBP @ 8,430' & PERF 8,404' - 05' 4 SPF, 8,370' - 74' 4 SPF, 8,341' - 42' 4 SPF, 8,309' - 12', 3 SPF, 8,263' - 66', 4 SPF, 45 HOLES. WHP 3,054 #, BRK 3,163 #, @ 5.3 BPM, ISIP 3,100 #, FG .81 PMP 150 BBLS @ 50.1 @ 5,010 #, = 42 OF 45 HOLES OPEN MP 5,273 #, MR 50.2 BPM, AP 4,670 #, AR 48.4 BPM, ISIP 3,318 #, FG .84 NPI 218 #, PMP 2,588 BBLS OF SLICK WATER, PMP 86,800 # OF 30/50 SAND & 5,000 # OF TLC (resin coated sand) TOTAL OF 91,800 #.

STG 6) RIH W/ 3 3/8" EXP GUNS, 23 GRM, .35 HOLES 90 & 120 DEG PHASING SET 8K BAKER CBP @ 8,124' & PERF 8,090' - 94' 4 SPF, 8,078' - 79' 4 SPF, 8,025' - 27' 4 SPF, 7,958' - 61', 3 SPF, 7,911' - 13', 4 SPF, 45 HOLES. WHP 2,189 #, BRK 2,378 #, @ 5.2 BPM, ISIP 1668 #, FG .64 PMP 150 BBLS @ 50.3 @ 4,519 #, = 41 OF 45 HOLES OPEN MP 5,596 #, MR 50.8 BPM, AP 4,217 #, AR 49.0 BPM, ISIP 2,257 #, FG .72 NPI 589 #, PMP 2,950 BBLS OF SLICK WATER, PMP 102,800 # OF 30/50 SAND & 5,000 # OF TLC (resin coated sand) TOTAL OF 107,800 #.

STG 7) RIH W/ 3 3/8" EXP GUNS, 23 GRM, .35 HOLES 90 & 120 DEG PHASING SET 8K BAKER CBP @ 7,835' & PERF 7,801' - 05' 3 SPF, 7,688' - 92' 4 SPF, 7,656' - 59' 3 SPF, 7,629' - 31', 3 SPF, 43 HOLES. WHP 1,640 #, BRK 2,100 #, @ 5.2 BPM, ISIP 1,839 #, FG .68 PMP 150 BBLS @ 50.2 @ 4,050 PSI, = 43 OF 43 HOLES OPEN MP 5,327 #, MR 50.2 BPM, AP 3,821 #, AR 48.5 BPM, ISIP 2,650 #, FG .78 NPI 811 #, PMP 2,353 BBLS OF SLICK WATER, PMP 92,280 # OF 30/50 SAND & 5,000 # OF TLC (resin coated sand) TOTAL OF 97,280 #.

KILL PLG. RIH & SET 8K CBP @ 7,560 #, POOH W/ WIRE LINE. RDMO CUTTERS & SCHLUMBERGER SWI SDFN, 7:30 PM.

05/25/06

PROG: 7:00 AM. HSM. WHP: 0 #, ND FRAC VALVES NU BOPS. RIH W/ 238 JTS 2-3/8 L-80 4.7# TBG. RU POWER SWIVEL. RIH.

C/O 5' OF SAND TAG PLG 1 @ 7,560' DRL PLG IN 10 MIN 1,000 #, INCREASE RIH  
C/O 30' OF SAND TAG PLG 2 @ 7,835' DRL PLG IN 10 MIN 700 #, INCREASE RIH  
C/O 30' OF SAND TAG PLG 3 @ 8,124' DRL PLG IN 10 MIN 700 #, INCREASE RIH  
C/O 30' OF SAND TAG PLG 4 @ 8,430' DRL PLG IN 10 MIN 500 #, INCREASE RIH  
C/O 30' OF SAND TAG PLG 5 @ 8,683' DRL PLG IN 10 MIN 700 #, INCREASE RIH  
C/O 30' OF SAND TAG PLG 6 @ 9,056' DRL PLG IN 10 MIN 600 #, INCREASE RIH  
C/O 30' OF SAND TAG PLG 2 @ 7,835' DRL PLG IN 10 MIN 700 #, INCREASE RIH  
C/O TO 9,700' PBTD. CIRC WELL CLEAN. LD 31 JTS 2-3/8 L-80 TBG. LAND TBG W/ 274 JTS EOT @ 8,694.39'. ND BOPS NU WH. DROP BALL TO SHEAR OFF BIT. PMP OFF BIT @ 2,700 #. TURN WELL OVER TO FLOW TESTERS.

325 JTS OF 2-3/8" L-80 4.7 # OUT BOUND. TLTR: 13,778 BBLS. 174 JTS LANDED. RIG  
RECOVERY: 2375 BBLS. 51 JTS RETURNED. LLTR: 11,403 BBLS.

**05/30/06**

**ON SALES**

05/26/06: 153 MCF, 0 BC, 1680 BW, TP: 1500#, CP: 1500#, 22/64 CHK, 18 HRS, LP: 90#.

05/27/06: 652 MCF, 0 BC, 1560 BW, TP: 1500#, CP: 1200#, 22/64 CHK, 24 HRS, LP: 81#.

05/28/06: 785 MCF, 0 BC, 1440 BW, TP: 1500#, CP: 1450#, 22/64 CHK, 24 HRS, LP: 90#.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ FORM 8  
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL:	OIL WELL <input type="checkbox"/>	GAS WELL <input checked="" type="checkbox"/>	DRY <input type="checkbox"/>	OTHER _____		
b. TYPE OF WORK:	NEW WELL <input type="checkbox"/>	HORIZ. LATS. <input type="checkbox"/>	DEEP-EN <input type="checkbox"/>	RE-ENTRY <input type="checkbox"/>	DIFF. RESVR. <input type="checkbox"/>	OTHER _____
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP					7. UNIT or CA AGREEMENT NAME UNIT #891008900A	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078					8. WELL NAME and NUMBER: NBU 921-331	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 2240'FSL, 878'FEL  AT TOP PRODUCING INTERVAL REPORTED BELOW:  AT TOTAL DEPTH:					9. API NUMBER: 4304736393	
10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES					11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NESE 33 9S 21E	
12. COUNTY UINTAH					13. STATE UTAH	

14. DATE SPUDDED: 4/1/2006	15. DATE T.D. REACHED: 5/13/2006	16. DATE COMPLETED: 5/26/2006	ABANDONED <input type="checkbox"/>	READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5015'GL
18. TOTAL DEPTH: MD 9,750 TVD	19. PLUG BACK T.D.: MD 9,722 TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *			21. DEPTH BRIDGE MD PLUG SET: TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) CBL-CCL-GR, SD/DS, HRE/SD/DS, HRE/MICRO					23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 H-40	32.3# 36#		2,160		675			
7 7/8"	4 1/2 I-80	11.6#		9,750		1810			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8	8,694							

26. PRODUCING INTERVALS <i>W/SMVD</i>					27. PERFORATION RECORD			
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
(A) MESAVERDE	7,629	9,663			7,629 9,663	0.35	315	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7629'-9663'	PMP 13,778 BBLS SLICK H2O & 491,780# 30/50 JORDAN SD

29. ENCLOSED ATTACHMENTS:	30. WELL STATUS:
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____
PROD	

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 5/26/2006	TEST DATE: 6/2/2006	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,518	WATER – BBL: 960	PROD. METHOD: FLOWING
CHOKE SIZE: 22/64	TBG. PRESS. 891	CSG. PRESS. 2,000	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS: PROD

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	INTERVAL STATUS:

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

SOLD

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,817 7,612	7,612			

## 34. FORMATION (Log) MARKERS:

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE

DATE 6/20/2006

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation

- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



Kerr-McGee Oil & Gas Onshore LP  
1099 18 STREET, SUITE 1200  
DENVER, CO 80202

March 26, 2008

Division of Oil, Gas and Mining  
ATTN: Gil Hunt  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

43-047-36393

RE: Water Disposal Well proposal NBU 921-33I SWD  
2240' FSL, 878' FEL (NE/4SE/4) Sec 33-9S-21E  
Uintah County, Utah  
Natural Buttes Unit

Dear Mr. Hunt,

Kerr-McGee Oil & Gas Onshore LP proposes to convert the NBU 921-33I into a saltwater disposal well down to 1662'-1957' in the Bird's Nest of the Green River formation. The well is owned by Kerr-McGee 100%. We must notify all owners within one-quarter mile of the well site prior to filing the UIC. Please feel free to contact me at (720) 929 6698 should you have any questions. Thank you for your assistance.

Sincerely,

James C. Colligan III  
Landman

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
**FOR RECORD ONLY**

**RECEIVED**  
**APR 03 2008**  
DIV. OF OIL, GAS & MINING



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> ML-22446
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> KERR-MCGEE OIL & GAS ONSHORE, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b> NATURAL BUTTES
<b>3. ADDRESS OF OPERATOR:</b> P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		<b>8. WELL NAME and NUMBER:</b> NBU 921-331
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 2240 FSL 0878 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: NESE Section: 33 Township: 09.0S Range: 21.0E Meridian: S		<b>9. API NUMBER:</b> 43047363930000
<b>PHONE NUMBER:</b> 720 929-6007 Ext		<b>9. FIELD and POOL or WILDCAT:</b> NATURAL BUTTES
<b>COUNTY:</b> UINTAH		<b>STATE:</b> UTAH
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input checked="" type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion: 10/14/2009	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input checked="" type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> THE SUBJECT WELL RETURNED TO PRODUCTION ON 10/14/2009 AT 10:30 A.M.		
<b>Accepted by the</b> <b>Utah Division of</b> <b>Oil, Gas and Mining</b> <b>FOR RECORD ONLY</b> October 15, 2009		
<b>NAME (PLEASE PRINT)</b> Andy Lytle	<b>PHONE NUMBER</b> 720 929-6100	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/15/2009	



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
REGION 8

1595 Wynkoop Street  
Denver, CO 80202-1129  
Phone 800-227-8917  
[www.epa.gov/region8](http://www.epa.gov/region8)

AUG 11 2016

Ref: 8P-W-UIC

**CERTIFIED MAIL**  
**RETURN RECEIPT REQUESTED**

Rob Dunleavy  
Kerr-McGee Oil & Gas Onshore, L.P.  
1368 South 1200 East  
Vernal, Utah 84078

Re: Final Permit  
EPA UIC Permit UT22330-10832  
Well: NBU 921-33I SWD-B  
NESE Sec. 33-T9S-R21E  
Uintah County, Utah

API # 43-047-36393

Dear Mr. Dunleavy:

Enclosed is your copy of the Final Underground Injection Control (UIC) Program Permit for the proposed NBU921-33I SWD-B injection well. A Statement of Basis that discusses the conditions and requirements of this Environmental Protection Agency UIC Permit is also included.

The public comment period for this permit ended on July 11, 2016. No comments on the draft permit were received during the public notice period; therefore, the effective date for this EPA UIC Permit is the date of issuance. All conditions set forth herein refer to Title 40 Parts 124, 144, 146, and 147 of the Code of Federal Regulations (CFR), regulations that are in effect as of the Effective Date of this Permit.

Please note that under the terms and conditions of this Final Permit you are authorized only to construct the proposed injection well. Prior to commencing injection, you first must fulfill all "Prior to Commencing Injection" requirements of the Final Permit, Part II Section C.1, and obtain written Authorization to Inject from the EPA. It is your responsibility to be familiar with and to comply with, all provisions of your final permit. The EPA forms referenced in the permit are available at <http://www.epa.gov/safewater/uic/reportingforms.html>.

Guidance documents for Cement Bond Logging, Radioactive Tracer Testing, Step Rate Testing, Mechanical Integrity Demonstration, Procedure in the Event of a Mechanical Integrity Loss, and other UIC guidances, are available at

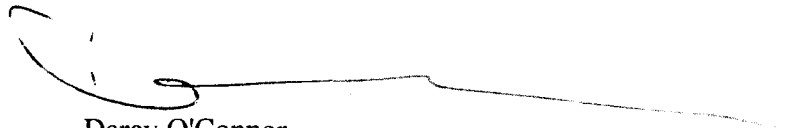
<http://www.epa.gov/region8/region-8-deep-well-program>

Upon request, hard copies of the EPA forms and guidances can be provided.

This EPA UIC Permit is issued for the operating life of the well unless terminated (Part III, Section B). The EPA may review this permit at least every five (5) years to determine whether any action is warranted pursuant to 40 CFR § 144.36(a).

If you have any questions on the enclosed final permit or Statement of Basis, please call William Gallant of my staff at (303) 312-6455 or toll-free at (800) 227-8917, extension 312-6455.

Sincerely,



Darcy O'Connor  
Acting Assistant Regional Administrator  
Office of Partnerships and Regulatory Assistance

cc letter only:

Uintah & Ouray Business Committee

Chairman Shaun Chapoose, Ute Indian Tribe  
Vice-Chairman Edred Secakuku, Ute Indian Tribe  
Reannin Tapoof, Executive Assistant

Bartholomew Stevens, Superintendent  
BIA, Uintah & Ouray Indian Agency

Antonio Pingree, Deputy Superintendent  
BIA, Uintah & Ouray Indian Agency

cc with enclosures (2):

Bart Powaukee, Natural Resources Director  
Ute Indian Tribe

Bruce Pargeets, Energy & Minerals Director  
Ute Indian Tribe, Energy and Minerals Department

Brad Hill, Oil and Gas Permitting Manager  
Utah Division of Oil, Gas, and Mining

Jerry Kenczka  
Assistant Field Manager for Lands & Minerals  
BLM Vernal Office

Landon Newell  
Southern Utah Wilderness Alliance